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Combined Declaration and Power of Attorney for Patent Application

Docket Number: 0942.4560001

As a below named inventor, We hereby declare that:

Our residences, post office addresses and citizenship are as stated below next to our names.

I believe I am the original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled Compositions and Methods for Enhanced Synthesis of Nucleic Acid Molecules, the specification of which is attached hereto unless the following box is checked:

was filed on March 12, 1999;
as United States Application Number or PCT International Application Number 09/266,935; and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application(s) | Priority Claimed | | | |
|-------------------------------|-----------------------|------------------------------------|------------------------------|-----------------------------|
| <hr/> <hr/> (Application No.) | <hr/> <hr/> (Country) | <hr/> <hr/> (Day/Month/Year Filed) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <hr/> <hr/> (Application No.) | <hr/> <hr/> (Country) | <hr/> <hr/> (Day/Month/Year Filed) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

| | |
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| <hr/> <hr/> <u>60/077,881</u> (Application No.) | <hr/> <hr/> <u>March 13, 1998</u> (Filing Date) |
| <hr/> <hr/> (Application No.) | <hr/> <hr/> (Filing Date) |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

| | | |
|-------------------------------|---------------------------|---|
| <hr/> <hr/> (Application No.) | <hr/> <hr/> (Filing Date) | <hr/> <hr/> (Status - patented, pending, abandoned) |
| <hr/> <hr/> (Application No.) | <hr/> <hr/> (Filing Date) | <hr/> <hr/> (Status - patented, pending, abandoned) |

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Robert G. Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; and Steven R. Ludwig, Reg. No. 36,203.

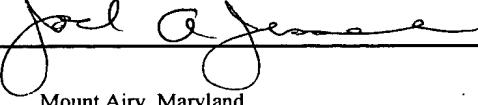
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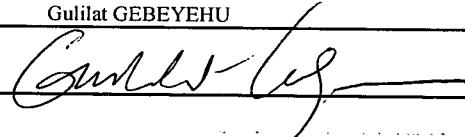
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | |
|-------------------------------------|---|
| Full name of sole or first inventor | Wu-Bo LI |
| Signature of sole or first inventor |  |
| 4/21/89 | Date |
| Residence | Gaithersburg, Maryland |
| Citizenship | USA |
| Post Office Address | 11909 Riding Loop Terrace Gaithersburg, Maryland 20878 |
| Full name of second inventor | Joel A. JESSEE |
| Signature of second inventor |  |
| Date | |
| Residence | Mount Airy, Maryland |
| Citizenship | USA |
| Post Office Address | 4139 Old National Pike Mount Airy, Maryland 21771 |

| | | |
|------------------------------|---|-----------------|
| Full name of third inventor | David SCHUSTER | |
| Signature of third inventor |  | Date 5/7/89 |
| Residence | Poolesville, Maryland | |
| Citizenship | USA | |
| Post Office Address | 17105 Spates Hill Road Poolesville, Maryland 20837 | |
| | | |
| Full name of fourth inventor | Jiulin XIA | |
| Signature of fourth inventor |  | Date 4/21/99 |
| Residence | Germantown, Maryland | |
| Citizenship | USA | |
| Post Office Address | 13177 Lake Geneva Way Germantown, Maryland 20874 | |
| | | |
| Full name of fifth inventor | Guilat GEBEYEHU | |
| Signature of fifth inventor |  | Date 4/26/99 |
| Residence | Potomac, Maryland | |
| Citizenship | USA | |
| Post Office Address | 12400 Rivers Edge Drive Potomac, Maryland 20854 | |

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Wu-Bo LI, Joel A. JESSEE, David SCHUSTER, Jiulin XIA and Gulilat GEBEYEHU, the undersigned inventor(s) hereby sell(s) and assign(s) to Life Technologies, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) for the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world,

(a) in the invention(s) known as Compositions and Methods for Enhanced Synthesis of Nucleic Acid Molecules for which application(s) for patent in the United States of America has (have) been filed on March 12, 1999 (also known as United States Application No. (to be assigned: Atty. Docket No. 0942.4560001/RWE/BJD)), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997;

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Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 3/15/99 Signature of Inventor: Wu-Bo Li
Wu-Bo Li

Date: 3/15/99 Signature of Inventor: Joel A. JESSEE
Joel A. JESSEE

Date: 3/15/99 Signature of Inventor: David SCHUSTER
David SCHUSTER

Date: 3/15/99 Signature of Inventor: Julin XIA
Julin XIA

Date: 3/15/99 Signature of Inventor: Gulilat GESEYEHU
Gulilat GESEYEHU

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